

What is claimed is:

1. One sort of thermoplastic insole is orderly composed of polyethylene layer, thermoplastic layer and surface-clothing layer from the bottom to the top, meanwhile, the thermoplastic layer is produced and, proportionately blended by vinyl acetate - 50 %, thermoplastic rubber - 30 %, plasticizer - 10% and processing agent. After heating, the insole's plasticity can be applied in order to produce the individually suitable insole, and provide the better comfort.

2. The Thermoplastic Insole as claimed in claim 1, wherein the thermoplastic layer is composed as below:

vinyl acetate: component range 50% ~ 60%

Thermoplastic rubber: component range 20% ~ 30%

Plasticizer: 10 %

Processing agent: 10%, it will be blended by ratio based on 100% and, produced by heating.

3. The processing method of Thermoplastic Insole:

(1) Thermoplastic layer of processing: thermoplastic layer is composed as followed:

Ethyl acetate: 50 % ~ 60 %

Thermoplastic rubber: 20 % ~ 30%

Plasticizer: 10%

Processing agent: 10%, it will be blended by ratio and, made into liquid form after heating, furthermore, will be processed through the injection, the shape will then

be obtained after cooling.

(2) Hot coating: It is orderly composed of polyethylene layer, thermoplastic layer, and surface-clothing layer, will process hot coating after heating at 100 ~ 120 °C for 1 minute.

(3) Cooling: Thermoplastic Insole product will be obtained after cooling at 0 ~ 4 °C for 2 minutes.

10

4. The Thermoplastic Insole's Plasticized Method:

(1) Heating: To heat insole, and make it soft.

(2) Pressing: User applies foot as molding and, press on the insole as to obtain shape.

(3) Cooling: Cooling & Forming in room temperature.

5. The Thermoplastic Insole's Plasticized Method as claimed in claim 4, the heating method can adopt covering the insole by plastic film or plastic bag, then, dip it into 60°C ~ 80°C hot water.

6. The Thermoplastic Insole's Plasticized Method as claimed in claim 4, the heating method can be applied by oven.

7. The Thermoplastic Insole's Plasticized Method as claimed in claim 4, the heating method can be applied by microwave oven.

30